

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. P00,0289

First Named Inventor or Application Identifier

Markus Lautenbacher

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APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Specification [Total Pages 18]
2. Drawing(s) (35USC 113) [Total Pages 7]
3. Declaration and Power of Attorney [Total Pages 2]
 - a. Newly executed declaration (Original copy)
 - b. Copy from prior application (37CFR 1.63(d)) (for continuation/divisional with Box 14 completed)
 - i. **[Note Box 4 Below]**
DELETION OF INVENTOR(S)
Signed statement attached deleting Inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
4. Incorporation By Reference (usable if Box 3b is checked)
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 3b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

ACCOMPANYING APPLICATION PARTS

5. Assignment Papers (cover sheet & documentation)
6. Letter under 37 CFR 1.41(c).
7. English Translation Document (if applicable)
8. Information Disclosure Statement (IDS)/PTO-1449
9. Preliminary Amendment
10. Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
11. Small Entity Statement filed in prior application, Statement(s) Status still proper and desired
12. Certified Copy of Priority Document(s) European Application No. 00100922.4 filed January 18, 2000
13. Other:

Copies of IDS Citations

14. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

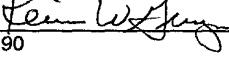
Continuation Divisional Continuation-in-part (CIP) of prior application No: /

CLAIMS AS FILED					
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TOTAL CLAIMS	20	14			
INDEPENDENT CLAIMS	3	4	1	\$78.00	\$78.00
ANY MULTIPLE DEPENDENT CLAIMS? (YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>					
				TOTAL FILING FEE ->	\$768.00

- The Commissioner is hereby authorized to charge any additional fees which may be required in connection with this application, or credit any overpayment to ACCOUNT NO. 08-2290. A duplicate copy of this sheet is enclosed.
- A check in the amount of \$ 768.00 to cover the filing fee is enclosed.

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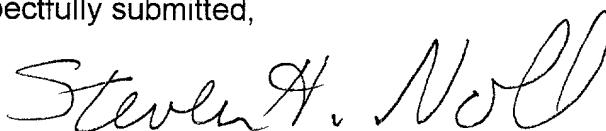
Assistant Commissioner for Patents,
Washington, D.C. 20231

RE: Proposed Patent Application for **Markus Lautenbacher** entitled:
Method for Using Software Products that are Offered Via A Network based on **one European Patent Application: 00100922.4**
filed **18 January 2000**.
Attorney Docket No. **P00,0289**

Sir:

Under the provisions of 37 CFR §1.41 (c), I am filing the attached application with **14** Claims, **7** sheets of informal drawings, **un-executed Declaration**, and **filing fee** on behalf of **Markus Lautenbacher** and request that the application be assigned a serial number and filing date, pursuant to the provisions of 37 CFR §1.53 (b) and §1.53 (d).

Respectfully submitted,



Steven H. Noll
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(Reg. No. 28,982)

SPECIFICATION

TITLE

"METHOD FOR USING SOFTWARE PRODUCTS THAT ARE OFFERED VIA A NETWORK"

5

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates to having a network provider assume the processing for the usage of software products that are offered via a network.

Description of the Related Art

10 In modern networks (such as the Internet), in which software products are offered for sale or as a service, three different participants generally play a role (see Figure 1) : 1) the network operator, 2) the provider of software products, and 3) the end user.

Network Operator Role

15 The network operator (or "network provider") operates and administers a network that primarily provides a "bit-transport" functionality. The network operator provides network connectivity for the web servers of the provider of software and contents or he may assume this function vicariously by providing a web server for the provider ("web hosting"). The network operator also provides network connectivity for the end user, normally as dial-in via a modem or ISDN, and thus normally has an established and long term business relationship with the end user: He sends the end user invoices about received network connectivity performances on a regular basis and knows his financial actions.

Provider of Software Products Role

25 The main competence of a provider of software products lies in the preparation of software products, including action-oriented software products ("software", e.g., 1:

applications, such as services, tools, etc. or 2: games, etc.), and content-oriented software products (“contents”, e.g., studies, branch-oriented news, etc.). The provider sells this software and/or contents by providing it on a web server for downloading by the end user. The fees for this software and content for the end user can be small, depending upon the fee model.

The provider, however, does not have an established and long term business relationship with the end user, due to the statistical nature of web surfing. Furthermore, the provider’s main competence does not consist in charging, particularly for small fee amounts and the economic expenditures required to administer such charging.

End User Role

An end user who is using the web normally jumps (for example, via a search engine) in a statistical manner from web site to web site. He does not have (or does not want to have) an established and long term business relationship with the numerous visited providers of software and contents. Rather, he wishes to receive the offered performances "on-demand" and wants to receive the appertaining charges optimally on one invoice from a source that he is familiar with. The network operator is the only such familiar source because the network operator already provides the end user with the network connectivity and charges him for it.

A technical solution that allows convenient and economical charging for the usage of software and contents in networks is desired in such a scenario, which can include different charging models (including very small amounts). A user-specific degree of access control to software and contents is desirable as well (e.g., controlling access by children). The installation and configuration expenditures necessary for the method on the side of the end user would have to be negligible and be economically and technically feasible in order to assure broad acceptance by end users.

In previous solutions, unmodified software or contents were provided on web servers. The end user downloaded it from these servers onto his personal terminal device, installed it, and used the corresponding software or contents.

As to access control, the following models are conceivable and desirable, but may not always be possible (embodying criteria such as type of content and payment of the utilized performances, etc): 1) the time-limited free trial, and 2) content-based access control.

5 Time-Limited-Free-Trial Model

In this model, the end user can gratuitously use the software or contents for a limited period of time after installation on his terminal device. At present, the validity of such use is determined *locally on the user's terminal device* by, e.g., inquiry of associated data or of the Windows™ Registry; such a scheme can easily be cracked

10 Content-Based Access Control Model

The current technical solutions do not allow access control for the usage of the downloaded software or contents with respect to a fixed, end user-specific profile as long as the control instance lies solely on the device of the end user.

15 As to charging, the following models are conceivable and desirable, but may not always be possible: 1) pay per use, and 2) one-time full purchase.

Pay Per Use Model

Charging, generally of very small amounts, according to the actual usage frequency of the software or contents is currently not possible.

20 One-Time Full Purchase Model

The single registration and payment of a full version for the unrestricted usage of the software or contents may take place off-line via telephone/fax or in a credit card transaction. This is the only charging method that is currently in place.

25 When *at least local* protection mechanisms with respect to the access control in the software and contents are not present, there is considerable illegal, unpaid usage by end users that are not registered, and the economical damage is correspondingly high for the provider without access control.

SUMMARY OF THE INVENTION

According to the present invention, a service provider (e.g., the network operator) assumes the usage processing, (e.g., "charging and/or access control") for the usage of software and contents. The network operator offers this as a service for the provider of software and contents, when the provider wishes to "outsource" these tasks in order to be able to concentrate on the preparation of software and contents.

The provider of software and contents can also avoid the charging of very small amounts, which may not be economical for him, via "outsourcing".

Providing usage processing, such as charging and/or access control, is particularly advantageous for the network operator since the end user is already connected to the network of the network operator for purposes of the network connectivity, and therefore is in a long term business relationship with the network operator.

The fact that the end user's device on which the software and contents are to be used is connected to the network enables improved access control to software and contents by way of the network operator as a third source which is not only independent of the end user but also of the provider. The existence of a business relationship enables the collection of charges for performances that are received by the end user at third parties in the network vicariously by the network operator for a third party in the network.

The network-supported access control and charging is technically realized by inserting a corresponding software module into the original source code of the software and contents by the provider. The network operator gives the provider of software and contents with this software module in the form of a software development kit when the provider subscribes to the service "network-supported access control and charging of software and contents" at the network operator location. The network operator assumes the corresponding certificate-supported validation and charging of the thus modified software and contents as the central and certificated instance in the network.

The advantages for the network operator are that the inventive solution makes it possible for the network operator to provide more than simply a pure bit transport in

his business and allows an expansion in the direction of multiple and/or increased value services.

As to the end users, the network operator can offer specific accounts with cost- and access control regarding specific software and contents for under age persons and children.

As to the provider, the network operator can assume the accounting and managing the charging of performances that the end user received from the provider. Small amounts can also be economically charged, since the network operator, in the framework of his other charging operation for the network sources used by the end user, for example, already has the resources and experience required to perform this function..

The advantages for the provider of software and contents are that the provider can "outsource" the charging of software and contents vis-a-vis the end user and can concentrate on his software or content development. In contrast to the current state, new, network-supported charging models are available to the provider in public networks due to pay-per-use and one-time-full-buy.

At the same time, the network-based, certificate-supported central access control for the usage of software and contents is more secure than the current practice of control via local resources on the device of the end user.

The insertion of a corresponding software module into the original source code of the software and contents by the provider does not represent a problem from a technical standpoint and does not represent a problem with respect to expenditures required.

Finally, the advantages for the end user are that the network operator provides the end user with an account for the usage of software and contents (e.g., age-related and content-related accounts, cost control via prepaid accounts, etc.), which is specifically designed for his requirement profile.

For all such received performances, he receives one single invoice from the network operator, who represents a service provider he knows and trusts. This allows the end user to use offers of different providers at the same time, without having to enter into his own business relationship with others, respectively (possibly for small

amounts).

In the pay-per-use charging model, the end user at all times can legally use, in an economical manner, the up-to-date version of software and contents, where such software or contents might be rarely needed. For this purpose, he does not have to initially pay the full purchase amount, (which could be high), but rather pays only a small amount which becomes due with each use. In this charging model, the end user only pays for the actually used software and contents usage.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a block diagram showing the corresponding steps for the case of the service "charging and access control";

Figure 2 is a block diagram showing the transaction flow between the end user and the network operator;

Figure 3 is a block diagram showing an overview of an exemplary embodiment of the present inventive system;

Figure 4 is a block diagram showing a partial overview of this system with the essential elements for the access of the end user to the end user service web site of the network operator;

Figure 5 is a block diagram showing a partial overview of this system with the essential elements for the access of the provider of software and contents to the provider-service-web site of the network operator;

Figure 6 is a block diagram showing a partial overview of this system with the essential elements for the supply of a CIDAA-capable software application and contents by the provider; it also shows the subsequent download by the end user onto his terminal device; and

Figure 7 is a block diagram showing a partial overview of this system with the essential elements for the usage of a CIDAA-capable software application and contents by the end user.

In Figures 3-7, the term "customer" is interchangeable with the term "end user", and the term "merchant" is interchangeable with the term "provider".

DESCRIPTION OF THE PREFERRED EMBODIMENTS

The corresponding steps for the case of the service "charging and access control" are schematically shown in Figure 1:

Step 1: The manufacturer of software and contents subscribes to the service
5 "network-supported access control and charging of software and contents" at the
network operator. In order to subscribe, he receives a software development kit from
the network operator which allows him to build in a software component into the
source code of his software or the contents, where the software component realizes a
network-supported access control and charging. This software will be referred to
10 below as "service module" or "access control- and charging module".

Step 2: The manufacturer or a corresponding service provider provides the
software and contents correspondingly protected by way of the above cited software
development kit on an arbitrary web server in the network so that it can be
downloaded. From this web server, the end user downloads the software and contents
15 onto his terminal device and installs it there.

Step 3: When someone calls the software and contents, the service module,
which is introduced via the software development kit for purposes of controlling the
access and charging, contacts the corresponding server of the network operator via the
network; this takes place immediately after the start of the software and contents. This
20 contact between the service module and server via the network requires an always-on
network connection or at least requires a sufficiently fast dial-up-on-demand method at
the end user side. For purposes of controlling the access and charging, data, such as
cryptographic identification character (a one-to-one corresponding identification
number or valid charging model) of the software and contents, user data (a user
25 identification character, password, or account number), are thereby transferred to the
network operator.

Step 4: The network operator checks the data received by the end user
regarding correctness, topicality and compatibility of the profile that is preset by the

customer. When the end user inquires about the usage of specific software and contents, the following exemplary information can be co-considered on the server of the network operator: the cryptographic identification character and version number of the software and contents, the type of the software and contents to be used with respect to a preset user profile (such as age restriction, restriction with respect to specific contents, etc.) of the end user, and the creditworthiness and account balance of the end user. Such a finely-adjusted checking could not be performed in a secure manner on the device of the end user.

At the end of the check, the server of the network operator, via the network connection, reports back to the corresponding access control- and charging model on the side of the end user whether the end user is allowed to use the software and contents: If so, the software and contents continues with its normal functioning; if not, the access control- and charging model terminates the software and contents with an error message and thus prevents their unauthorized usage by the end user.

Step 5: When the end user inquiry has been positively answered by the server, the corresponding charging operations are subsequently carried out on the accounts of the participants: The account of the end user is debited with an amount X for the usage, where charges for software and contents apply ($X = 0$ for offers that are free of charge). The provider receives this amount X on his account, minus a service charge Y. The service charge Y arises for the provider of software and contents, since he used the end user control- and charging service of the network operator for the transaction described in steps 3 and 4 above.

When the server of the network operator rejects the end user inquiry to use the software and contents, this is also appropriately registered in the operation protocols of the server.

Figure 3 shows the above cited steps 3 and 4 in greater detail between software and contents with an access control- and charging module at the side of the end user and between the control- and charging instance at the side of the network operator:

1. The access control- and charging module (Cryptographic ID based

authorization and accounting (CIDAA) module) is inserted into the normal program run immediately after the software and contents have been started. This takes place by way of inserting the corresponding software development kit into the original source code of the software and contents.

5 2. The CIDAA request generator of the CIDAA module places a request via
the network of the network operator for purposes of controlling the access and
charging with respect to the CIDAA request handler on the corresponding server of
the network operator. A cryptographic identification character that is specific for the
respective software and content is thereby transferred in the direction of the network
operator in the form of a what is referred to as MD5 digest, as well as an identification
character and password of the end user. Prior to this, the CIDAA module requests the
end user to input the identification character and password. MD5 is a special type of
10 the general class of "hash functions", which are used in order to biuniquely reduce
digital signatures of digital data to "message digests" for purposes of improved
handling.
15

3. The "CIDAA decision maker" takes different criteria into consideration in
order to decide whether to allow the inquiry of the end user to use the software and
contents.

Possible criteria are:

- 20 a) the correct cryptographic identification character of the software and
contents, registered at the network operator;
 b) the correct authorization of the end user via user identification character and
password;
 c) the version number of the software and contents (to determine if the version
is potentially out of date);
 d) the type of the software and contents to be used with respect to a preset
profile of the end user (e.g., restriction with respect to specific contents for accounts
of under age persons, etc.); and
 e) the creditworthiness and account balance of the end user.

25
30

4. The "CIDAA reply generator" on the side of the network operator sends the corresponding response regarding the inquiry from step 2 to the CIDAA handler in the CIDAA module at the side of the end user.

5. If the inquiry has been positively answered, the CIDAA module, proceeding from the reply handler, gives up the control and the original program run of the software and contents is continued. If the inquiry has been negatively answered, the CIDAA module displays a corresponding error message.

10. 6. Apart from the reply to the CIDAA reply handler, the CIDAA reply generator also provides information for the "accounting handler" on the server of the network operator.

7. The accounting handler carries out the corresponding charging operations on the accounts of the end user and of the provider of software and contents. In addition, the accounting handler also keeps statistics about the CIDAA inquiries that have taken place and about the result of their processing.

15. Figure 4 shows a partial overview of the system with the essential elements for the access of the end user to the end user service web site of the network operator by which the end user can look into his current account data (e.g., current charge balance) by way of a standard web browser and can undertake changes at his user profile that is stored in the "customer details database" at the network operator's system (e.g., changing the accounting address).

20. The communication between the web browser of the end user and the web server of the network operator takes place using HTTP via "Secure Socket Layer" (SSL), namely via "Secure HTTP" (HTTPS). The end user needs his user identification character and password for the access to the above cited data.

25. The corresponding service logic at the side of the web server is realized in "java servlet" technology. Different service-specific java servlets implement the respective service logic. At the same time, they form the interface to the web browser as the service interface of the end user. For this purpose, the servlets generate corresponding web pages and transfer these to the web browser of the end user via HTTPS or, respectively, react to user actions that are initiated by web pages that are

generated in this way.

Accesses to data banks and charging systems, where these accesses are necessary for the service logic, are not implemented in the different servlets themselves and are therefore multiply implemented. Corresponding java classes realize the inquiries and changes in the "customer details database" and in the external (normally already existing) charging system of the network operator, once.

Figure 5 shows a partial overview of the system with the essential elements for the access of the provider of software and contents to the provider-service-web site of the network operator, in which the technical realization corresponds to the one of the access of the end user to the end user-service-web site in Figure 4.

It is possible for the provider to look into his current account in the "merchant database" (e.g., the current deposit balance) and to partly undertake changes there. Furthermore, he can undertake changes in the product database for the software and contents that belong to him and, according to the CIDAA method, that are controlled and charged for him by the network operator, such as changes with respect to the cryptographic identification character and price, changes regarding the content rating (e.g., age restriction), etc..

Figure 6 shows a partial overview of the system with the essential elements for the supply of a CIDAA-capable software application and contents by the provider and shows the subsequent download by the end user onto his terminal device.

For every CIDAA-capable software and contents and software and contents that are administered by the network operator, the following steps are performed by the provider:

a) integrating the original application source code or of the contents together with the CIDAA development kit to an executable file of a CIDAA-capable software application or to a self-extracting executable file for contents. The network operator provides the provider of software and contents with the CIDAA development kit as soon as the provider has subscribed to the service "network-supported access control and charging of software and contents" at the network operator site.

b) generating a biunique cryptographic, 128 bit long, digital identification character ("128 bit unique ID") by way of a generation tool, which is a part of the CIDAA development kit. The generated identification character is an MD5 digest that

is biunique for different (self-extracting) executable files.

c) providing the CIDAA-capable software and contents on a web site for the download by the end user. The web site can be operated by the provider himself, by the network operator or by third parties (e.g., an internet service provider in the framework of the web hosting).

d) registering the newly prepared, CIDAA-capable software and contents at the network operator, so that he can assume the network-supported access control and charging for it. The access of the provider to the provider service web site of the network operator takes place as has already been described above relating to Figure 5.

The access takes place via a web browser utilizing HTTPS; the corresponding service logic is realized on the server of the network operator via java servlets. As data per software product (e.g., an identification character (MD5 digest) of the software product, the charging model, prices, content rating, etc.) are respectively transmitted by the provider to the network operator for the acceptance in the product database.

The end user can download the software and contents in the framework of his normal activities when surfing on a web site (e.g., looking at pages, downloading software and contents) onto his terminal device after the provider has prepared the CIDAA-capable software and contents, has provided the CIDAA-capable software and contents on a web site and after the registration at the network operator site. The downloading by the end user takes place via standard HTTP by way of a standard web browser. In the case of software, the end user subsequently installs the application on his terminal device in a conventional manner.

Figure 7 shows a partial overview of the system with the essential elements for the usage of a CIDAA-capable software application and contents by the end user; the downloading and the potential installation of the software and contents by the end user on his terminal device has already been described in connection with Figure 6.

As soon as the end user, on his terminal device, executes the executable file of the software application or the self-extracting executable file in the case of contents, the following steps occur:

a) the normal entry point of the (self-extracting) executable file gives the program control to the CIDAA code module, which has been built into the source code of the (self-extracting) executable file by way of the CIDAA development kit.

5 b) the CIDAA code module dynamically generates a MD5 digest of its own
self-extracting executable file. The generation occurs in a dynamic manner in order
to assure the authenticity and intactness of the software and contents. This is achieved
in that the dynamically generated MD5 digest is compared to the MD5 digest that has
been previously statically prepared by the provider by way of a digest generation tool
(see the description of Figure 6), where this statically prepared MD5 digest has been
deposited on the server of the network operator.

10 c) the CIDAA code module sends an "authorization to use" request to the web
server of the network operator via HTTPS. Parameters of the request are the
dynamically generated MD5 digest and the user identification character and password
dynamically inquired from the end user before the transmission of the request (e.g., by
way of a pop-up-window).

15 d) a servlet with corresponding service logic accepts and processes the
"authorization to use" request on the web server of the network operator. The
necessary accesses to databases and charging system are realized by java classes.

The individual processing steps are:

20 d.1) Reading out the end user data (e.g., user identification character,
password, content, restrictions, etc.) from the customer details database and, as far as
possible, comparing these parameters with their corresponding parameters in the
"authorization to use" request. This involves aborting and responding negatively with
respect to the "authorization to use" request back to the terminal device of the end
user when the user identification or password differ.

25 d.2) Reading out the data of the software product (e.g., the MD5 digest
statically generated by the provider, the charging model, prices, content rating, etc.)
from the "merchant/product database" and their comparison with the corresponding
parameters from the "authorization to use" request, as well as with the data of the end
user previously read out from the customer details database. For purposes of assuring
authenticity and intactness of the software and contents, a comparison is performed,
particularly between the static MD5 digest that is deposited in the software product
30 data bank and the MD5 digest that is dynamically generated in the device of the end
user for a call of the software and contents. This involves aborting and responding
negatively with respect to the "authorization to use" request back to the terminal
device of the end user when the MD5 digest, charging model or content rating differ.

d.3) Depending on the valid charging model, a further step is initiating a corresponding transaction for the credit entry/debit entry onto the account of the end user and/or of the provider in the charging system of the network operator.

This involves aborting and responding negatively to the "authorization to use" request back to the terminal device of the end user when errors occur in this step.

d.4) If no errors have occurred up to this point in this run of the service logic, a positive answer to the "authorization to use" request is sent back via HTTPS to the terminal device of the end user

10 e) The CIDAA module receives the response to the "authorization to use" request via HTTPS from the web server of the network operator

If the response is positive, the module branches to the original program run of the (self-extracting) executable file; this makes it possible for the end user to be authorized to use the software or to unpack the contents when the access control and charging by the central instance of the network operator was successful

15 If the response is negative, the module branches to a routine that outputs a corresponding error message for the end user; the unauthorized usage of the software or the unpacking of the contents by the end user is thus inhibited when the access control and charging by the central instance of the network operator failed.

20 f) Leaving and finishing the (self-extracting) executable file via the normal exit point.

The above-described method and related systems are illustrative of the principles of the present invention. Numerous modifications and adaptions thereof will be readily apparent to those skilled in this art without departing from the spirit and scope of the present invention.

WHAT IS CLAIMED IS:

1. A method for using software products that are offered via a network, comprising the steps of:

5 inquiring about a software product from an offer server by a user via a terminal device;

downloading said software product from said offer server via said network onto said terminal device in response to said inquiry of said user;

activating a software component of said software product;

10 starting a communication by way of said software component with a usage processing server regarding a usage of said software product in response to a call of said software product in said terminal device of said user;

15 providing, by said software component in a framework of said communication, data to said usage processing server; and

15 checking said data, by said usage processing server, and then making a determination selected from the group consisting of: whether usage of said software product is approved with respect to said inquiring user, and whether charging operations are carried out on user accounts and provider of software product accounts.

20 2. A method according to claim 1, further comprising the step of operating said usage processing server by a network provider.

25 3. A method according to claim 1, further comprising the step of operating said offer server by a network provider.

4. A method according to claim 1, further comprising the step of using a web server for a server selected from the group consisting of said offer server and said usage processing server.

5. A usage processing server comprising:
a usage processing module for processing a software product downloaded
from a network;
wherein said usage processing server is contacted by said software product
5 after said software product has been downloaded into a terminal device of a user and
has been activated; and
wherein usage processing data required to perform usage processing are
delivered to said usage processing server.
6. A usage processing server according to claim 5, further comprising:
10 a data store in which a software product identification of said software product
and type of usage processing data that prescribe a type of usage processing of said
software product are stored by said usage processing module, and
wherein said usage processing module registers said software product.
7. A usage processing server according to claims 5, wherein:
15 said usage processing data required comprises a software product identification
of said software product and a user identification.
8. A usage processing server according to claim 5, wherein:
said usage processing comprises performing an access control.
9. A usage processing server according to claim 5, wherein:
20 said usage processing comprises performing a usage charging of said software
product on user accounts and provider accounts.
10. A usage processing server according to claim 5, wherein:
said usage processing module keeps statistics about usage contacts that have
taken place and about results of a processing of said usage contacts.

11. A software product, comprising:
a software component that is activated when called by said software product
and that subsequently starts communicating with a usage process server and delivers
usage processing data required for performing usage processing to said usage
processing server in the framework of said communication;
wherein said software product can be downloaded into a terminal device by a
user via a network in response to an inquiry from said user.

12. A software product according to claim 11, wherein said usage processing data
comprises:
software product provider data; and
software product identification; and
wherein said usage processing data is dynamically determined user data.

13. A software product according to claim 12, wherein said software component
interacts with said user to produce said dynamically determined user data.

14. A method for the generation of a software product that is offered via a
network, comprising the steps of:
installing a software component in source code of said software product of a
software manufacturer by using a software development kit provided by a usage
processing provider;
activating said software component when called by said software product;
starting a communication by said software component with a usage processing
server after said step of activating said software component;
sending, by said software component, usage processing data that are required
for performing usage processing to said usage processing server in the framework of
said communication.

Abstract

The invention provides a way for a network provider to assume the processing for the usage of software products that are offered via a network. The network provider can offer this processing as a service for the provider of software products, who wishes to "outsource" these tasks.

5

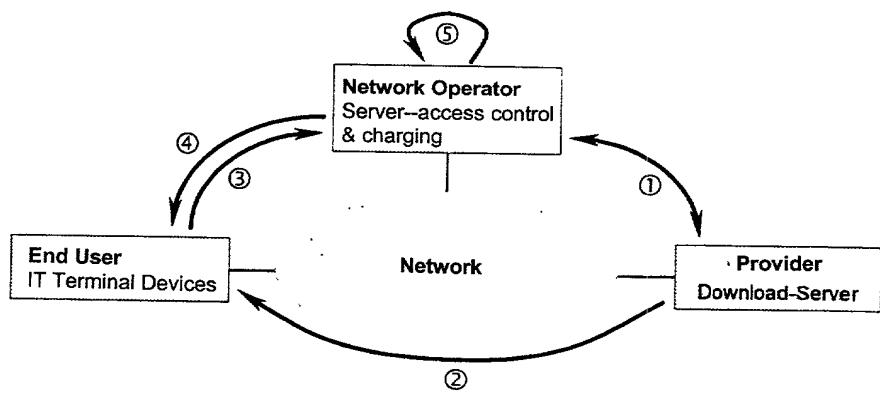


FIG. 1

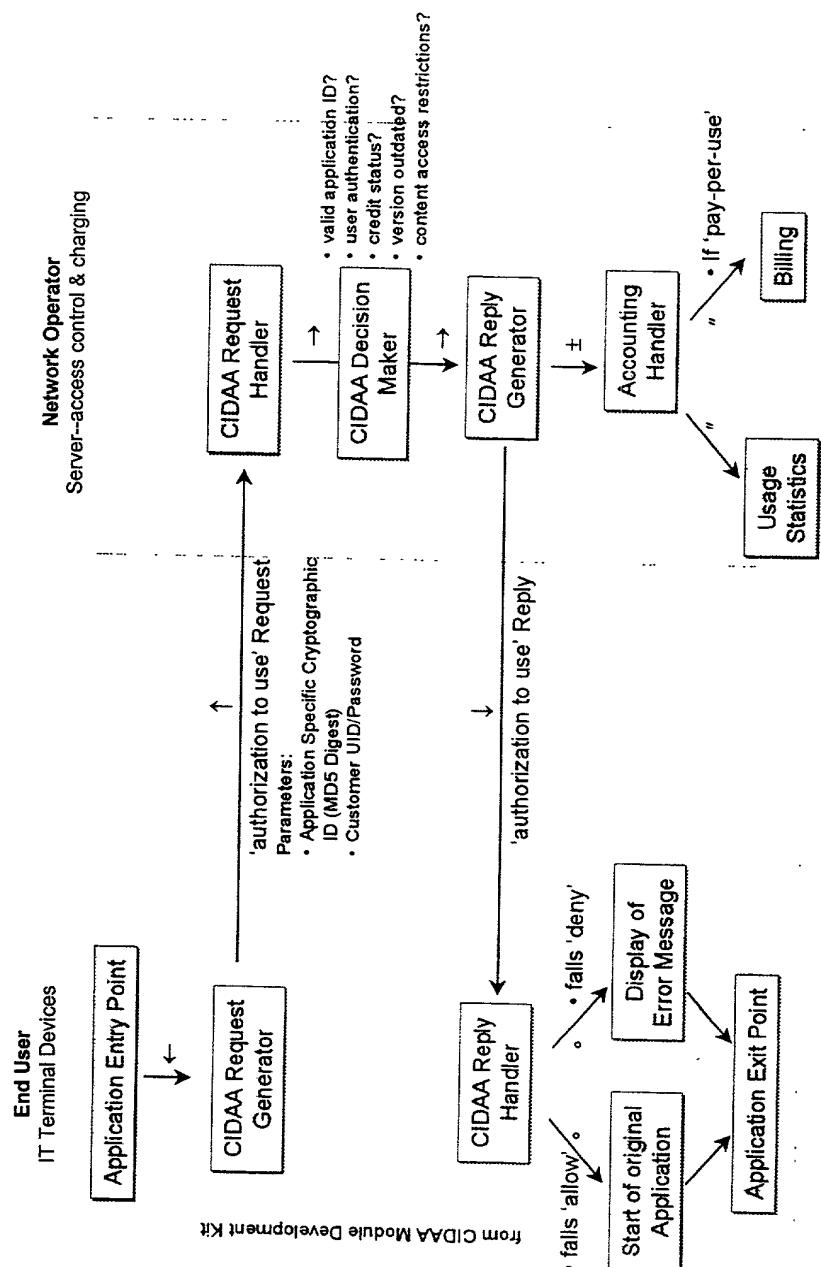


FIG. 2

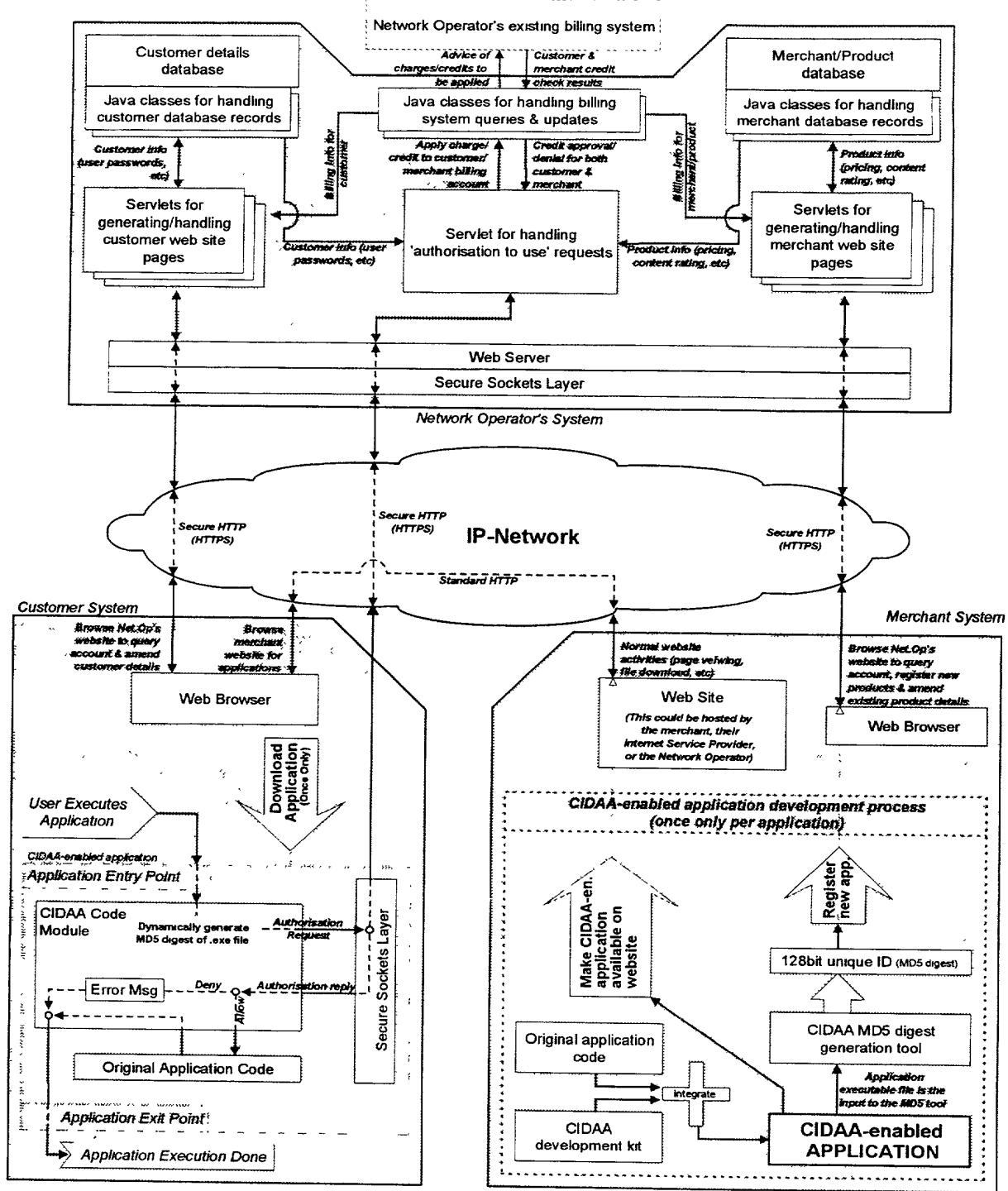


FIG. 3

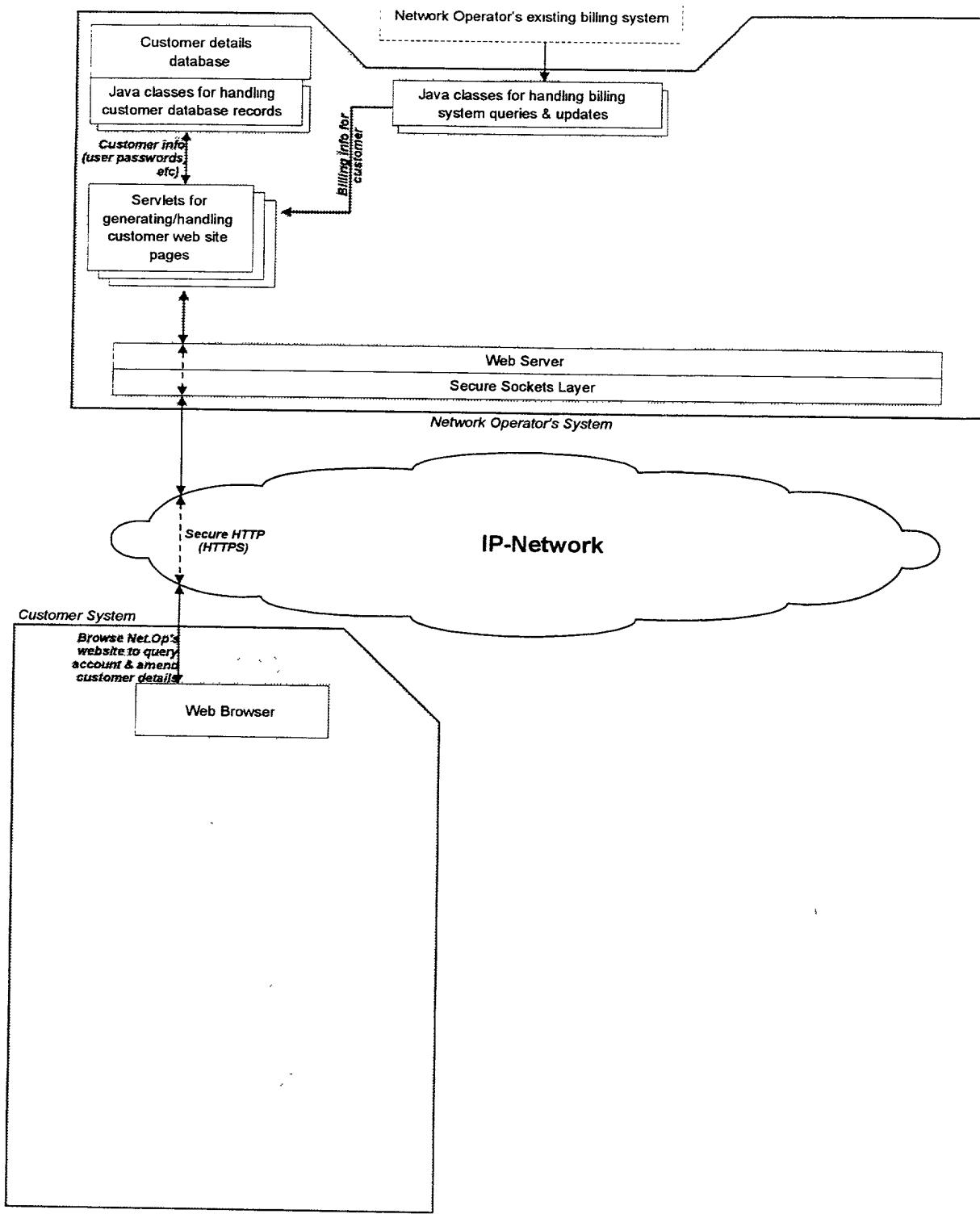


FIG. 4

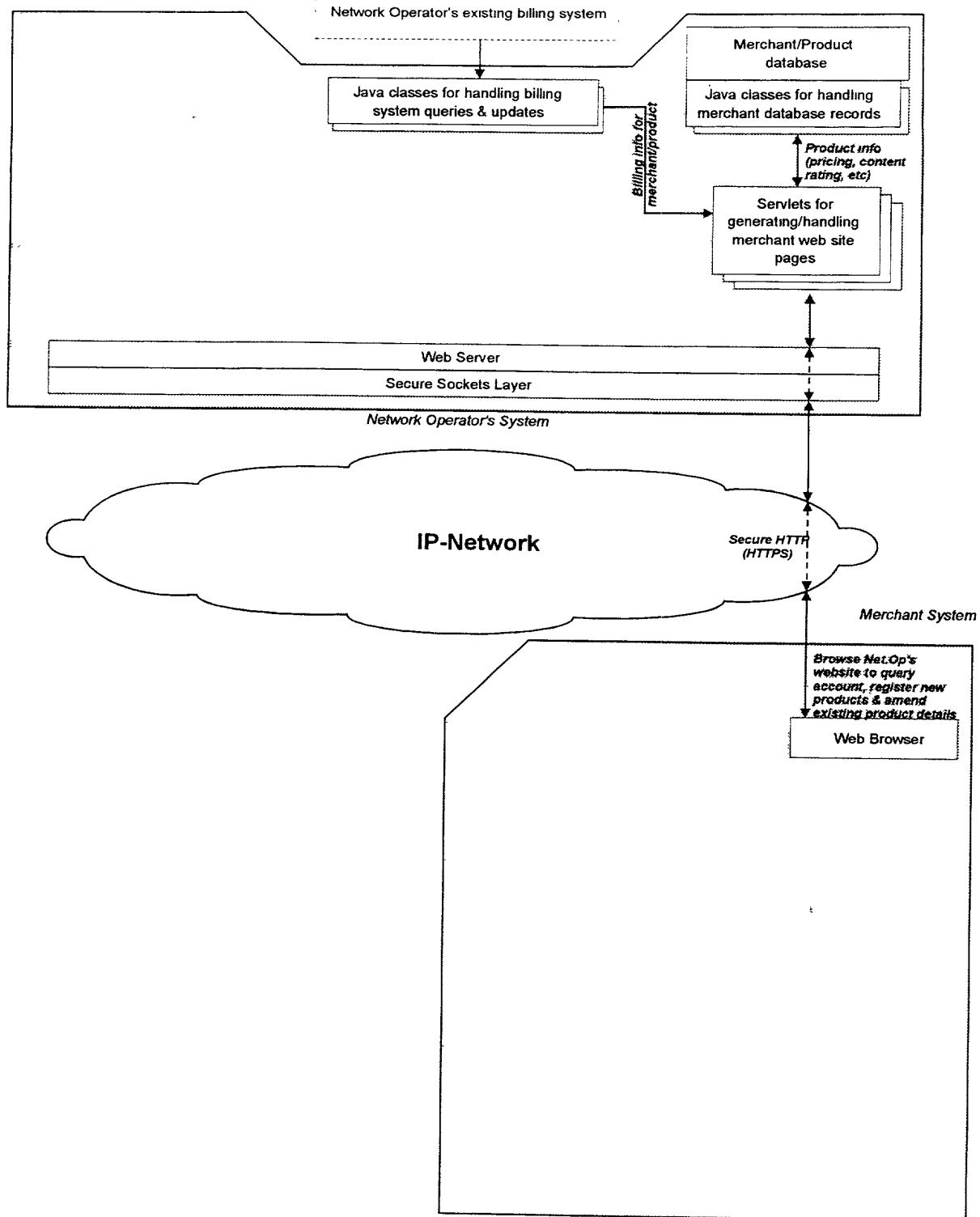


FIG. 5

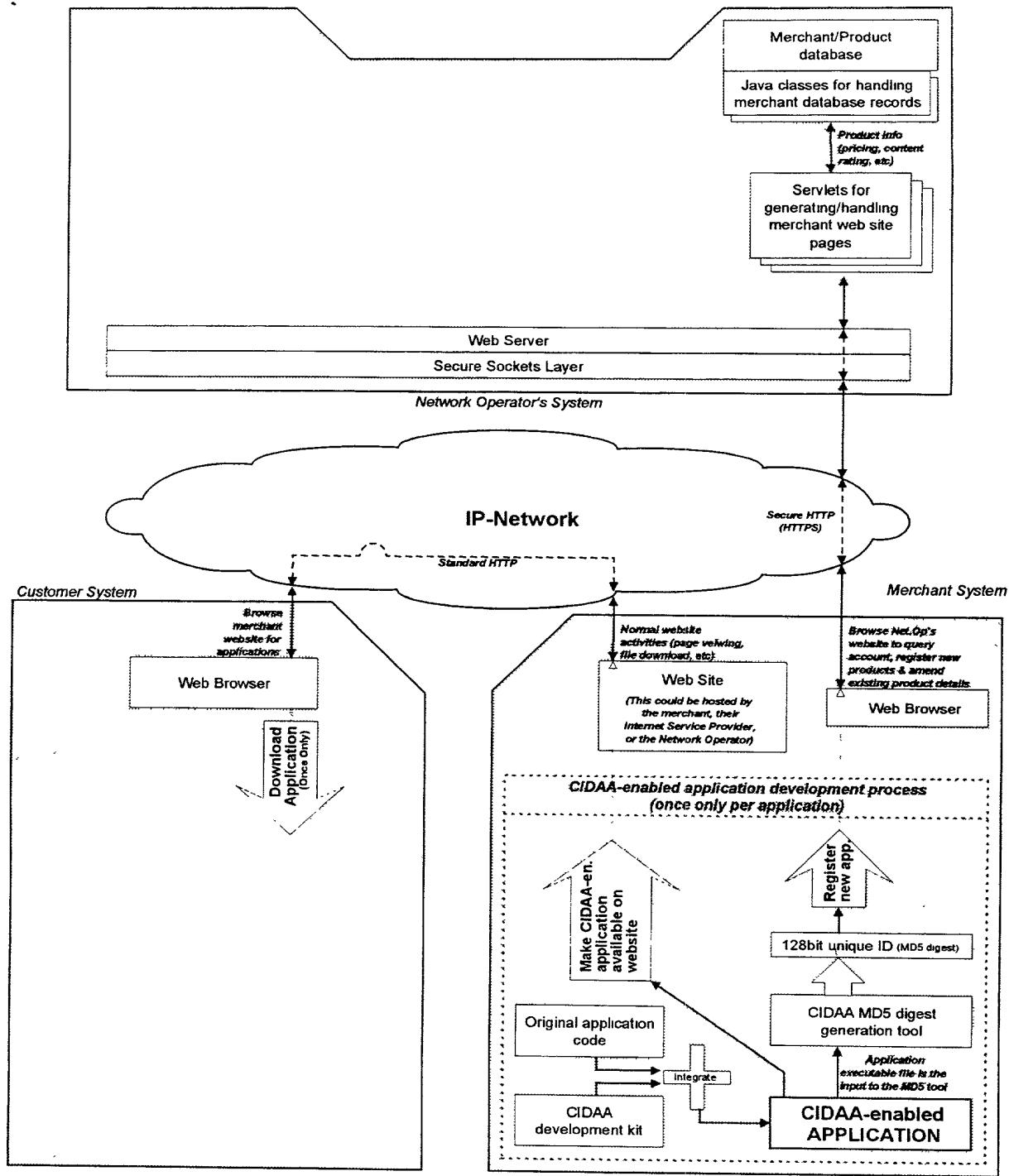


Fig. 6

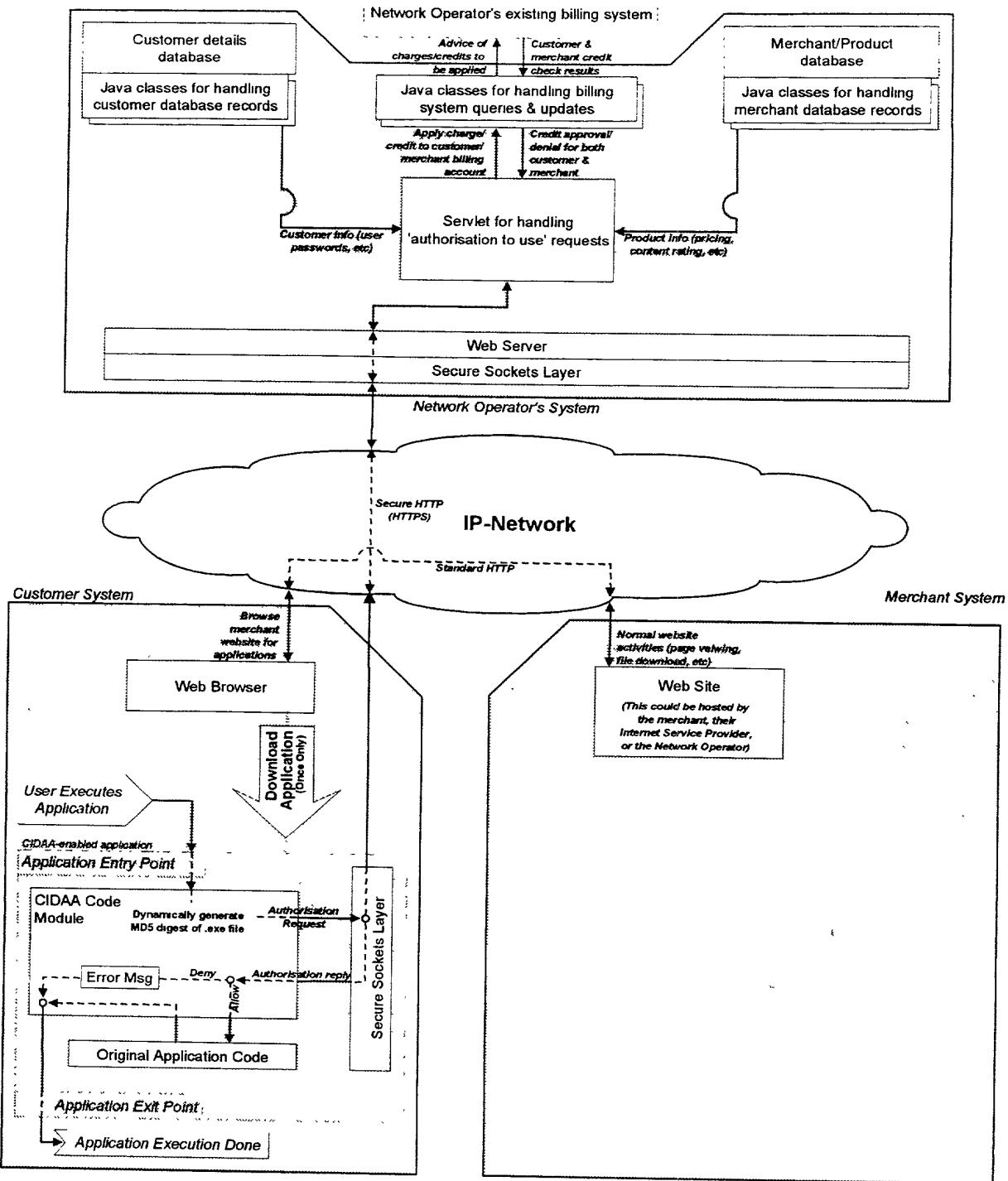


FIG. 7

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method for Using Software Products that are Offered Via A Network

Case No. P00,0289, the specification of which

(check
one) X is attached hereto.
 — was filed on _____, as
 Application Serial No. _____
 and was amended on _____
 (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent Office all information which is known to me to be material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, 1.56.¹

I do not know and do not believe this invention was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, and I believe that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns, except as identified below:

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below

Prior Foreign Application(s) Number	Country	Date
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00100922.4	European Patent Office	January 18, 2000
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and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the above listed application on which priority is claimed:

Prior Foreign Application(s) Number	Country	Date
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If no priority is claimed, I have identified all foreign patent applications filed prior to this application:

¹ (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a *prima facie* case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A *prima facie* case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

Prior Foreign Application(s)
Number Country

Date

And I hereby appoint Messrs. John D. Simpson (Registration No. 19,842), Dennis A. Gross (24,410), Robert M. Barrett, (30,142), Steven H. Noll (28,982), Kevin W. Guynn (29,927), Robert M. Ward (26,517), Brett A. Valiquet (27,841), Edward A. Lehman (22,312), David R. Metzger (32,919), Todd S. Parkhurst (26,494), James D. Hobart (24,149), Melvin A. Robinson (31,870), Joseph P. Reagen (35,332), Michael R. Hull (35,902), Michael S. Leonard (37,557), William E. Vaughan (39,056), and Lewis T. Steadman (17,074), all members of the firm of Hill & Simpson, A Professional Corporation

Telephone: 312/876-0200 Ext. 3491

my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and direct that all correspondence be forwarded to:

Hill & Simpson
A Professional Corporation
85th Floor Sears Tower, Chicago, Illinois 60606

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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(if any) _____

Inventor's signature _____ Date _____
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Citizenship _____
Post Office Address _____

Full name of third joint inventor,
(if any) _____

Inventor's signature _____ Date _____
Residence _____
Citizenship _____
Post Office Address _____